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PATENT & TRADEMARK OFFICE

SEQUENCE LISTING

<110> Max-Delbrück-Centrum für Molekulare Medizin

<120> Human and murine G-protein coupled EDG6 receptor (endothelial differentiation gene) and use of same

<130> 103130-3

<140> U.S. 09/786,926A
<141> 2001-05-04

<150> DE 198 43 240.2
<151> 1998-09-11

<150> DE 198 46 979.9
<151> 1998-10-13

<150> PCT/DE 99/02871
<151> 1999-09-10

<160> 16

<170> PatentIn Ver. 2.1

<210> 1
<211> 384
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: human G-protein-coupled EDG6 receptor

<400> 1

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Met Asn Ala Thr Gly Thr Pro Val Ala Pro Glu Ser Cys Gln Gln Leu
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Ala Ala Gly Gly His Ser Arg Leu Ile Val Leu His Tyr Asn His Ser
             20                  25                  30

Gly Arg Leu Ala Gly Arg Gly Gly Pro Glu Asp Gly Gly Leu Gly Ala
         35                  40                  45

Leu Arg Gly Leu Ser Val Ala Ala Ser Cys Leu Val Val Leu Glu Asn
     50                  55                  60

Leu Leu Val Leu Ala Ala Ile Thr Ser His Met Arg Ser Arg Arg Trp
 65                  70                  75                  80

Val Tyr Tyr Cys Leu Val Asn Ile Thr Leu Ser Asp Leu Leu Thr Gly
                 85                  90                  95

Ala Ala Tyr Leu Ala Asn Val Leu Leu Ser Gly Ala Arg Thr Phe Arg
            100                 105                 110

Leu Ala Pro Ala Gln Trp Phe Leu Arg Glu Gly Leu Leu Phe Thr Ala
        115                 120                 125
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Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly Glu Arg Phe
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Ala Thr Met Val Arg Pro Val Ala Glu Ser Gly Ala Thr Lys Thr Ser
145                 150                 155                 160

Arg Val Tyr Gly Phe Ile Gly Leu Cys Trp Leu Leu Ala Ala Leu Leu
                165                 170                 175

Gly Met Leu Pro Leu Leu Gly Trp Asn Cys Leu Cys Ala Phe Asp Arg
            180                 185                 190

Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Arg Tyr Ile Leu Phe Cys
        195                 200                 205

Leu Val Ile Phe Ala Gly Val Leu Ala Thr Ile Met Gly Leu Tyr Gly
    210                 215                 220

Ala Ile Phe Arg Leu Val Gln Ala Ser Gly Gln Lys Ala Pro Arg Pro
225                 230                 235                 240

Ala Ala Arg Arg Lys Ala Arg Arg Leu Leu Lys Thr Val Leu Met Ile
                245                 250                 255

Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu Leu Leu
            260                 265                 270

Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu Arg Gly
        275                 280                 285

Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val Asn Pro
    290                 295                 300

Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val Leu Ser
305                 310                 315                 320

Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro Gly Asp
                325                 330                 335

Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr Thr Asp
            340                 345                 350

Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser Leu Ser
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Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg Ser Ile
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<210> 2
<211> 1155
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: human edg6
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ccggaggatg gcggcctggg ggccctgcgg gggctgtcgg tggccgccag ctgcctggtg 180
gtgctggaga acttgctggt gctggcggcc atcaccagcc acatgcggtc gcgacgctgg 240
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gtgcggagca tctga 1155

<210> 3
<211> 1161
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: murine edg6
cDNA

<400> 3
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aactcagcca ttaatcctct catctactcc ttccgcagcc gtgaggtgca gcgcgctgtg 960
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acccggatca ccgaggccca ctccggtgca tccaccactg acagctccct gaggcccagg 1080
gacagttttc ggacttctcg gtcactcagc ttcaggatga gagagccgct gtccagcatt 1140
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<210> 4
<211> 386
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: murine
      G-protein-coupled EDG6 receptor

<400> 4
Met Asn Ile Ser Thr Trp Ser Thr Leu Val Thr Pro Glu Ser Cys His
 1               5                  10                  15

Arg Leu Ala Ala Ser Gly His Ser Leu Leu Ile Val Leu His Tyr Asn
            20                  25                  30

His Ser Gly Arg Leu Ala Ser Arg Gly Gly Ser Glu Asp Gly Gly Gly
        35                  40                  45

Leu Gly Met Leu Arg Gly Pro Ser Val Ala Ala Gly Cys Leu Val Val
    50                  55                  60

Leu Glu Asn Ala Met Val Leu Ala Ala Ile Ala Ile Tyr Met Arg Ser
65                  70                  75                  80

Arg Arg Trp Val Tyr Tyr Cys Leu Leu Asn Ile Thr Leu Ser Asp Leu
                85                  90                  95

Leu Thr Gly Leu Ala Tyr Val Val Asn Val Leu Leu Ser Gly Thr Arg
            100                 105                 110

Thr Phe Gln Leu Ser Pro Val His Trp Phe Leu Arg Glu Gly Leu Leu
        115                 120                 125

Phe Met Ala Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly
    130                 135                 140

Glu Arg Phe Ala Thr Met Val Arg Val Ala Glu Ser Gly Ala Thr Lys
145                 150                 155                 160

Thr Ser Arg Val Tyr Gly Cys Ile Gly Leu Cys Trp Leu Leu Ala Ala
                165                 170                 175

Ile Leu Gly Leu Leu Pro Leu Leu Gly Trp Asn Cys Val Cys Ala Phe
            180                 185                 190

Pro Arg Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Gly Tyr Val Leu
        195                 200                 205

Phe Cys Val Val Val Phe Ala Leu Ile Leu Val Ala Ile Leu Ser Leu
    210                 215                 220

Tyr Gly Ala Ile Phe Arg Val Val Arg Ala Asn Gly Gln Lys Ser Pro
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225 230 235 240

Arg Pro Pro Ala Arg Arg Lys Ser Arg Arg Leu Leu Asn Thr Val Leu
245 250 255

Met Ile Leu Val Ala Phe Val Val Cys Trp Gly Pro Leu Phe Gly Leu
260 265 270

Leu Leu Ala Asp Ile Phe Gly Ser Asn Val Trp Ala Gln Glu Tyr Leu
275 280 285

Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Phe Asn Ser Ala Ile
290 295 300

Asn Pro Leu Ile Tyr Ser Phe Arg Ser Arg Glu Val Gln Arg Ala Val
305 310 315 320

Leu Ala Phe Leu Cys Cys Gly Cys Leu Trp Leu Gly Leu Arg Gly Pro
325 330 335

Gly Asp Cys Leu Thr Arg Ile Thr Glu Ala His Ser Gly Ala Ser Thr
340 345 350

Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Thr Ser Arg Ser
355 360 365

Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
370 375 380

Ser Thr
385

<210> 5
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of PCR Primer R1

<400> 5

ccg gat ccg cvt dvt sgg maa ykb vyt sgt 30

<210> 6
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<212> DNA
<213> Artificial Sequence
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<223> Sequence of PCR Primer R3

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cgg gat ccg aar gyr tas ads adr ggr tt 29

<210> 7
<211> 21
<212> DNA
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<220>
<223> Sequence of PCR Primer 5'hGSPRT

<400> 7

ttg gag cca aag acg tcg gcc 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> Sequence of PCR Primer 5'hGSP1

<400> 8

agg cag aag agg atg tag cgc 21

<210> 9
<211> 21
<212> DNA
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<223> Sequence of PCR Primer 5'hGSP2

<400> 9

gcg ctc ccc tgc agt gaa gag 21

<210> 10
<211> 21
<212> DNA
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<223> Sequence of PCR Primer 3'hGSP1

<400> 10

agt gac ctg ctc acg ggc gcg 21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> Sequence of PCR Primer 3'hGSP2

<400> 11

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<210> 12
<211> 24
<212> DNA
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<223> Sequence of PCR Primer 5'mGSPRT

<400> 12

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<210> 13
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<212> DNA
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<223> Sequence of PCR Primer 5'mGSP1

<400> 13

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<211> 49
<212> DNA
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<220>
<223> Sequence of PCR Primer 5'mGSP2

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<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of 3' primer

<400> 15

cca cgt cct cct gcc cgc cgc 21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> Sequence of CA primer

<400> 16

cca cgt cct cct gcc cgc cgc 21